

# [OPTICAL LENS, DESIGN METHOD FOR THE OPTICAL LENS AND LENS SYSTEM USING THE OPTICAL LENS]

## Abstract

An optical lens is described. The optical lens comprises a barrel, a first lens and a second lens. The barrel has a light incident opening, and a receiving space, wherein the receiving space is successive to the light incident opening. Additionally, the first lens is disposed in the receiving space, and the first lens is partially exposed by the light incident opening, wherein the first lens has a first annular conical surface at the outer rim of the first lens. Further, the second lens is disposed in the receiving space, and embedded with the first lens. The second lens has a second annular conical surface on outer rim of the second lens, and the first annular conical surface is embedded with the second annular conical surface. Accordingly, the optical lens has better alignment accuracy and assembly performance.